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EVALUATIONS OF SOVIET SURFACE-TO-SURFACE MISSILE DEPLOYMENT

6TH REVISION 8748

A Report of the Deployment Working Group
of the
Guided Missiles and Astronautics Intelligence Committee

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DEPLOYMENT WORKING GROUP

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NOTE: All correspondence relative to this report should be directed to the Chairman, Guided Missiles and Astronautics Intelligence Committee (GMAIC).

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PREFACE

This report, formerly published bimonthly by the GMAIC Deployment Working Group (DWG) in mimeograph form, has been expanded to include additional data. It will continue to be published bimonthly in this new format.

Dissemination of the report was previously limited to holders of the DWG report, Soviet Surface-to-Surface Missile Deployment. Because the information contained herein is both supplemental and self-sustaining, distribution will no longer be limited to holders of the above report.

The current format provides a comprehensive, ready reference listing of all ICBM, IRBM, and MRBM deployment locations, types of site configurations, photographic references, estimated construction and operational status, and other evaluations of the DWG. Additional data may be added to future revisions.

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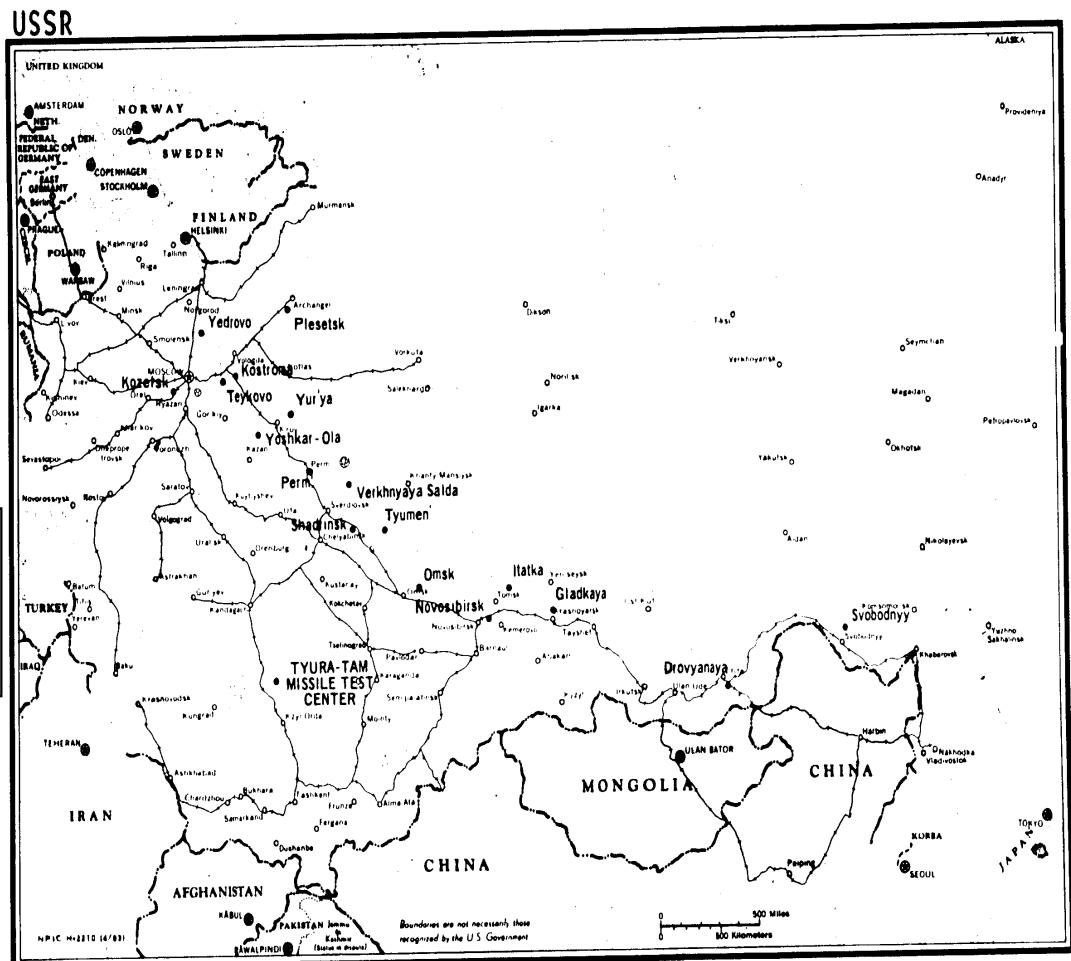


FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES.

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INTRODUCTION

This report is the sixth revision of Evaluations of Soviet Surface-to-Surface Missile Deployment prepared by the Deployment Working Group of the Guided Missiles and Astronautics Intelligence Committee. The fifth revision, dated 1 February 1963 and disseminated under control number TH-1163-62KII (A0000417), should be destroyed in accordance with the existing instructions for handling [redacted] material.

There has been no evidence from any source to revise the basic information included in the 1 February revision. However, a reanalysis of all available photography of each ICBM site was made in an effort to determine more precisely the construction timing and pace of the Soviet deployment program. This effort resulted in minor changes in our estimates of operational status.

A total of 136 ICBM launchers has been identified to date at deployed complexes. Of this total, about 100 are believed to be operational. See Figure 1 for locations of deployed ICBM complexes. The four basic ICBM site configurations are characterized as follows:

TYPE I - A first-generation soft site with a rail-served pad similar to Launch Complex A or B, Tyura Tam. To date, this type has been observed only at Plesetsk.

TYPE II - A second-generation soft site with two road-served pads similar to Launch Complex C, Tyura Tam. This type was first observed at Yur'ya and subsequently at 11 other

locations. There are two basic modifications of this type.*

TYPE III - A hardened site observed at Launch Complex D, Tyura Tam, and at eight confirmed ICBM complexes. Each site consists of two launchers (probably silo type) and a control bunker. The degree of hardening cannot be determined from available evidence. The excavations during construction are about 200 feet wide and 500 feet long. An accurate measurement of depth has not been determined from photography.

TYPE IV - A soft configuration consisting of two road-served launch pads. The configuration was first observed at Tyumen' and subsequently at three other confirmed ICBM complexes. It differs from TYPE II sites as follows: (1) the pad separation is between 800 and 870 feet instead of 980 feet, (2) the ready building is 820 feet from the pad and is smaller (115 by 130 feet), and (3) there is a "plus sign" pattern at the rear or side of the launch area at most of the sites under construction, the purpose of which has not been determined.

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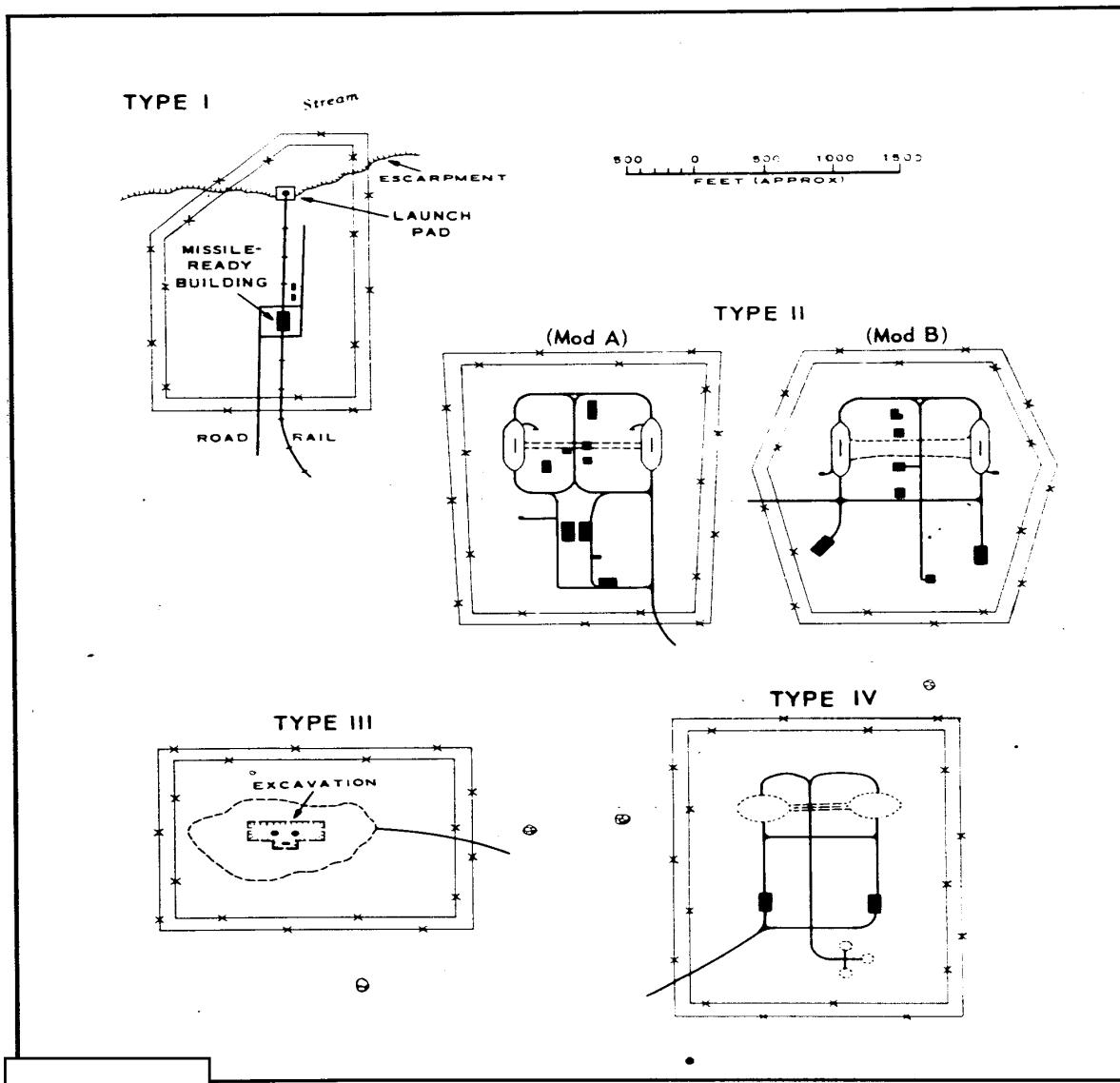


FIGURE 2. TYPICAL CONFIGURATIONS OF ICBM LAUNCH SITES.

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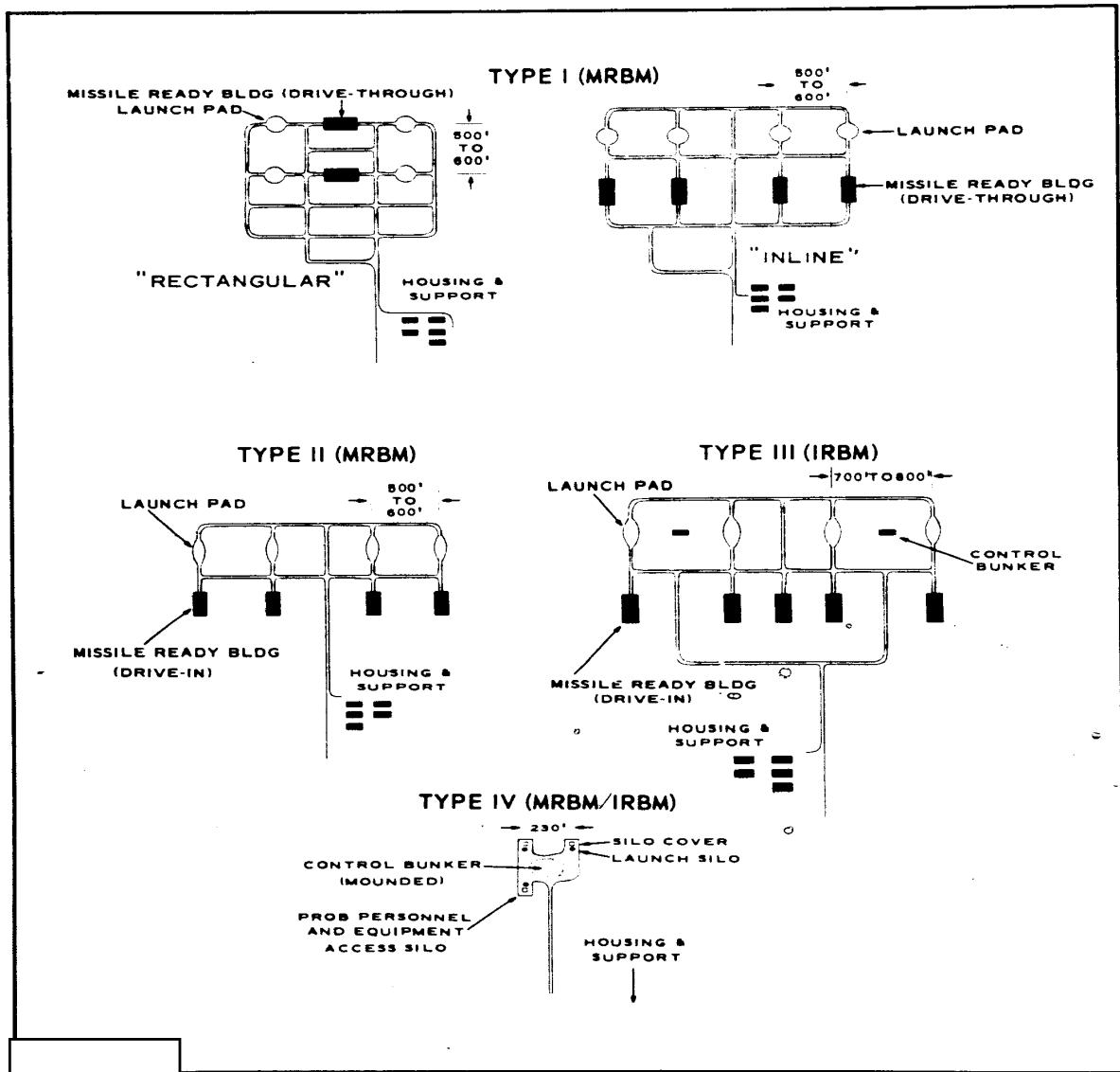


FIGURE 4. TYPICAL CONFIGURATIONS OF MRBM/IRBM LAUNCH SITES.

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Figure 2 presents the four basic ICBM site configurations listed above.

A total of 128 soft MRBM sites (512 launch pads) and 11 soft IRBM sites (44 launch pads) have been identified to date. These totals include one probable site at Smorgon and one possible site at Lebedin. Thirty hardened MRBM/IRBM sites (60 launchers) have been identified to date, including two possible sites at Shestovo and one probable site at Sary Ozek. For the locations of deployed MRBM/IRBM complexes, see Figure 3. The four basic MRBM/IRBM site configurations are presented in Figure 4. Three soft MRBM sites (Kraskino, Rozhdestvenka and U'golnyy) have characteristics of both the soft elongated-pad MRBM and IRBM sites. These site have been designated as MRBM sites in this report as most of the characteristics favor the MRBM.

In this report, five complex names have been changed by the DWG to incorporate names carried by the Target Data Inventory (TDI). These changes are as follows:

Dunayevtsy is changed to KAMENETS-PODOL'SKIY

Godykha is changed to ZHITOMIR
Petrifikov is changed to KONKOVICHI
Ragnit is changed to KRASNOZAMENSK
Skala-Podol'skaya is changed to BORSH-CHEV

It should be noted that all suspect locations are subject to continuous review. When a suspect location has sufficient evidence to warrant an assessment of possible or higher, it will be included in Soviet Surface-to-Surface Missile Deployment (TH 0747-62KH), dated 1 January 1962. When a location has been evaluated as negative by the DWG, all evidence including [redacted] photography will continue to be reviewed for deception, new construction, and unrecognized configurations. The evaluations assigned are based on the latest data and are subject to change as new evidence is made available.
⑤ Accordingly, this report will be revised bimonthly to reflect additions or changes in evaluations.

Although some of the locations listed in Table 4 may have some functional relationship to the Soviet missile program, the assessments are limited to launching facilities. Only major differences in assessment are listed in footnotes.

TABLE 1. SUMMARY OF ESTIMATED STATUS OF IDENTIFIED ICBM AND MRBM/IRBM LAUNCHERS AT DEPLOYED COMPLEXES¹

TYPE	NUMBER	OPERATIONAL	UNDER CONSTRUCTION	TYPE	NUMBER	OPERATIONAL	UNDER CONSTRUCTION
ICBM							
I	4	4	0	I	308	308	0
II	84	72	12	II	204	196	8
III	26	14	12	III	44	40	4
IV	22	12	10	IV	60	40	20
TOTAL	136	102	34	TOTAL	616	584	32

1. See TABLES 2 and 3 for details.

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TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location	BE Number	Coordinate	Type of Site	Number of Launchers	Site Negotiated		First Coverage		Last Coverage		Stage of Const. on Last Usable Coverage			Estimated Quarter Site Operational		Estimated Status	
					Sol	Hard	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th
DROYANAYA														63		Operational	
Site A		51-24N 113-06E	II B	2										64		U C	
Site B		51-23N 113-07E	III (Prob)	2													
GLADKAYA														63		U C	
Site A		56-20N 92-19E	IV	2										63		U C	
Site B		56-25N 92-25E	IV	2										63		U C	
ITATKA														62		Operational	
Site A		56-58N 85-33E	II B	2										63		Operational	
Site B		57-01N 85-39E	II B	2													
KOSTROMA														62		Operational	
Site A		58-02N 41-21E	II B	2										62		Operational	
Site B		58-02N 41-07E	II B	2										62		Operational	
Site C		57-59N 41-06E	II B	2										62		Operational	
Site D		58-05N 41-40E	II B	2										63		Operational	
Site E		57-57N 41-13E	III	2										63		U C	
Site F		57-55N 41-09E	II B	2										63		U C	
KOZEL'SK														63		Operational	
Site A		53-54N 35-44E	IV	2										63		Operational	
Site B		53-48N 35-47E	IV	2										63		Operational	
Site C		53-46N 35-41E	IV	2										63		Operational	
Site D		53-52N 35-51E	IV	2										63		Operational	
NOVOSIBIRSK														63		Operational	
Site A		55-19N 83-10E	II B	2										63		Operational	
Site B		55-19N 83-01E	III	2										64		Operational	
Site C		55-23N 82-56E	III	2										63		U C	
Site D		55-21N 83-34E	II B	2													
OMSK														63		U C	
Site A		55-09N 73-38E	III	2										64		U C	
Site B		55-11N 73-33E	III	2													
PERM'														62		Operational	
Site A		57-41N 56-28E	II B	2										62		Operational	
Site B		57-42N 55-51E	II B	2										63		Operational	
Site C		57-37N 56-07E	II B	2													
PLESETSK														60		Operational	
Site 1		62-55N 40-23E	I	2										60		Operational	
Site 2		62-56N 40-32E	I	1										60		Operational	
Site 3		62-57N 40-41E	I	1										61		Operational	
Site A		62-58N 40-47E	II A	2										62		Operational	
Site B		62-03N 40-58E	II B	2										63		Operational	
Site C		62-01N 40-52E	III	2										62		Operational	
Site D		62-23N 40-50E	IV	2										63		Operational	
Site E		62-50N 40-33E	IV	2													
SHADRINS'														63		Operational	
Site A		56-09N 63-52E	III	2										63		Operational	
Site B		56-09N 64-03E	III	2													

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TABLE 2 (continued)

Location	BE Number	Coordinate	Type of Site	Number of Launchers	Site Negotiated		First Coverage		Last Coverage		Stage of Const/On Last Usable Coverage		Estimated Quarter Site Operational		Estimated Status		
					Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th
SVOBODNYY																	
Site A		51 55N 128 10E	HB	2												62	Operational
Site B		51 49N 128 10E	HB	2												62	Operational
Site C		51 53N 128 10E	HB	2												63	Operational
Site D		52 00N 128 00E	HB	2												61	U/C
TEYKOVO																	
Site A		56 55N 49 25E	HB	2												62	Operational
Site B		56 56N 49 35E	HB	2												62	Operational
Site C		56 55N 49 35E	HB	2												63	Operational
Site D		56 58N 49 40E	HB	2												61	U/C
TYUMEN'																	
Site A		56 52N 65 35E	IV	2												63	Operational
Site B		56 48N 65 35E	IV	2												63	U/C
Site C		56 51N 65 25E	IV	2												63	U/C
VERKHNYAYA SAI																	
Site A		58 09N 60 16E	HB	2												62	Operational
Site B		58 06N 60 22E	HA	2												61	Operational
Site C		58 10N 60 28E	HA	2												61	Operational
Site D		58 12N 60 34E	HB	2												62	Operational
Site E		58 14N 60 34E	HB	2												62	Operational
Site F		58 14N 60 41E	III	2												63	Operational
Site G		58 13N 60 49E	III	2												63	Operational
YEDROVO																	
Site A		57 48N 33 36E	HB	2												62	Operational
Site B		57 48N 33 14E	HB	2												62	Operational
Site C		57 49N 33 08E	HB	2												63	Operational
Site D		57 48N 33 29E	HB	2												63	Operational
YOSHIMAROLA																	
Site A		56 35N 48 10E	HB	2												62	Operational
Site B		56 35N 48 08E	HB	2												62	Operational
Site C		56 32N 48 25E	HB	2												63	Operational
Site D		56 32N 48 19E	HB	2												63	U/C
YUR'YA																	
Site A		59 09N 49 33E	HA	2												61	Operational
Site B		59 08N 49 41E	HA	2												61	Operational
Site C		59 12N 49 28E	HB	2												62	Operational
Site D		59 13N 49 24E	HB	2												62	Operational
Site E		59 22N 49 17E	III	2												62	Operational
Site F		59 21N 49 13E	HB	2												63	Operational
Site G		59 04N 49 52E	III	2												63	Operational
Site H		59 11N 49 06E	(Prob)	2												63	U/C
SUB TOTALS					69	110	26										

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TABLE 2. (Continued)

Location	BE Number	Coordinate	Type of Site	Number of Launchers		Site Negotiated	First Coverage		Last Coverage		Stage of Const on Last Table Coverage		Estimated Quarter Site Operational	Estimated Status
				Soft	Hard		Date	Msn	Date	Msn	Date	Msn		
TYURA TAM														
Complex A	45 55N	63 20E	I		I									Operational
Complex A2	45 55N	63 20E	I		I									Operational
Complex B	45 50N	63 33E	I											Operational
Complex C	45 48N	63 39E	Prototype	1										Operational
Complex C3	45 48N	63 39E	Prototype	2										Operational
Complex D1	45 50N	63 57E	II											Operational
Complex D2	45 50N	63 57E	III											Operational
Complex E	45 58N	63 12E	Prototype	2										Operational
Complex F	46 02N	63 06E	Undet	Undet	Undet									Operational
Complex G	46 03N	62 56E	Undet	Undet	Undet									Operational
TOTALS				8			76		118		30			

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TABLE I. SUMMARY EVALUATION OF SOVIET MRBM IRBM DEPLOYMENT

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.
AKHTYRKA Launch Complex						
Launch Site No 1 (AKHTYRKA 1)		60-15-45N 34-50-15E	II	4		Complete
Launch Site No 2 (AKHTYRKA 2)		50-22-00N 34-57-15E	II	4		Complete
ALUKSNE Launch Complex						
Launch Site No 1 (LEJASCIEMS)		57-21-15N 26-44-45E	II	4		Complete
Launch Site No 2 (RUSKI)		57-25-15N 26-50-00E	II	4		Complete
ANASTASYEVA Launch Complex						
Launch Site No 1 (ANASTASYEVA 1)		48-35-00N 135-38-45E	II	4		Complete
Launch Site No 2 (ANASTASYEVA 2)		48-36-45N 135-41-30E	II	4		Complete
BALTA Launch Complex						
Launch Site No 1 (BALTA 1)		48-01-45N 29-33-30E	II	4		Complete
Launch Site No 2 (BALTA 2)		48-07-45N 29-34-30E	II	4		Complete
BARANO ORENBURGSKOYE Complex						
Launch Site No 1 (SOFIEV ALEKSEYEVSKOYE)		44-15-30N 131-23-00E	I	4		Complete
Launch Site No 2 (BARANO ORENBURGSKOYE)		44-19-45N 131-30-15E	I	4		Complete
BELOKOROVICHI Launch Complex						
Launch Site No 1 (OLEVSK 1)		51-08-45N 28-03-30E	I	4		Complete
Launch Site No 2 (OLEVSK 2)		51-10-30N 28-00-15E	I	4		Complete
Hard Launch Site (RUDNYA ZLOTINSKAYA)		51-01-30N 28-07-00E	IV	2		Complete
BORSCHIEV Launch Complex						
Launch Site No 1 (SKALA PODOL'SKAYA 1)		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 2 (SKALA PODOL'SKAYA 2)		48-53-15N 26-03-30E	I	4		Complete
BREST Launch Complex						
Launch Site No 1 (BREST 1)		51-49-00N 24-01-00E	II	4		Complete
Launch Site No 2 (BREST 2)		51-51-45N 24-01-45E	II	4		Complete
BRODY Launch Complex						
Launch Site No 1 (BRODY 2)		50-13-15N 25-05-00E	I	4		Complete
Launch Site No 2 (BERESTECHKO)		50-20-15N 25-05-30E	I	4		Complete
Hard Launch Site (BRODY 1)		50-06-00N 25-12-00E	IV	2		Complete
DERAZHINYA Launch Complex						
Launch Site No 1 (DERAZHINYA 1)		49-21-00N 27-22-30E	II	4		Complete
Launch Site No 2 (DERAZHINYA 2)		49-26-30N 27-29-00E	II	4		Complete
Hard Launch Site (KHMELNITSKY)		49-24-15N 27-08-45E	IV	2		Complete
DISNA Launch Complex						
Launch Site No 1 (DISNA)		55-35-15N 28-15-45E	I	4		Complete
Launch Site No 2 (ZELKI)		55-36-00N 28-24-30E	I	4		Complete
Launch Site No 3 (BORKOVICHI)		55-42-00N 28-27-15E	II	4		Complete
DOLINA Launch Complex						
Launch Site No 1 (DOLINA 1)		49-04-00N 24-03-30E	I	4		Complete
Launch Site No 2 (DOLINA 2)		49-06-15N 24-08-30E	I	4		Complete
Hard Launch Site (BOLEKHOV)		49-06-45N 23-51-45E	IV	2		Complete

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.	
DROGOBYCH Launch Complex							
Launch Site No 1 (MEDENITSA)		49-22-00N 23-45-30E	I	4		Complete	
Launch Site No 2 (DROGOBYCH)		49-24-45N 23-34-45E	I	4		Complete	
Hard Launch Site (STRYVY)		49-16-30N 23-43-00E	IV	2		Complete	
DYATLOVO Launch Complex							
Launch Site No 1 (DYATLOVO)		53-33-00N 25-16-30E	I	4		Complete	
Launch Site No 2 (ZBLYANY)		53-35-30N 25-17-45E	I	4		Complete	
Launch Site No 3 (BEREZOVKA)		53-36-15N 25-26-30E	II	4		Complete	
GOMEL' Launch Complex							
Launch Site No 1 (BORKHOV 1)		52-18-45N 30-43-00E	II	4		Complete	
Launch Site No 2 (BORKHOV 2)		52-24-45N 30-38-30E	II	4		Complete	
GRANOV Launch Complex							
Launch Site No 1 (GRANOV 1)		48-56-15N 29-30-30E	III	4		Complete	
Hard Launch Site (GRANOV 2)		48-49-30N 29-29-15E	IV	2		Complete	
GRESK Launch Complex							
Launch Site No 1 (GRESK 1)		53-14-50N 27-42-15E	I	4		Complete	
Launch Site No 2 (GRESK 2)		53-17-00N 27-41-15E	I	4		Complete	
Launch Site No 3 (URECHYE)		53-11-30N 27-58-30E	II	4		Complete	
GUSEV Launch Complex							
Launch Site No 1 (GUSEV 1)		54-41-30N 22-05-15E	I	4		Complete	
Launch Site No 2 (GUSEV 2)		54-44-15N 22-04-15E	I	4		Complete	
GVARDEYSK Launch Complex							
Launch Site 1 (GVARDEYSK 2)		54-45-15N 21-09-15E	I	4		Complete	
JELGAVA Launch Complex							
Launch Site No 1 (IECAVA 1)		56-35-30N 24-03-45E	II	4		Complete	
Launch Site No 2 (IECAVA 2)		56-39-45N 24-08-00E	II	4		Complete	
Hard Launch Site (IECAVA 3)		56-33-15N 24-20-30E	IV	2		Complete	
JONAVA Launch Complex							
Launch Site No 1 (KARMELAVA)		54-57-15N 24-06-00E	II	4		Complete	
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete	
KAMENETS PODOL'SKIY Launch Complex							
Launch Site No 1 (KAMENETS PODOL'SKIY)		48-51-15N 26-42-30E	II	4		Complete	
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	II	4		Complete	
KIVERTSY Launch Complex							
Launch Site No 1 (KIVERTSY 1)		50-52-45N 25-30-45E	I	4		Complete	
Launch Site No 2 (KIVERTSY 2)		50-57-00N 25-36-15E	I	4		Complete	
Launch Site No 3 (KIVERTSY 3)		50-58-30N 25-39-15E	II	4		Complete	
KONKOVICH Launch Complex							
Launch Site No 1 (PETRIKOV)		52-10-30N 28-24-30E	I	4		Complete	
Launch Site No 2 (KONKOVICH)		52-15-30N 28-37-45E	I	4		Complete	
KOROSTEN' Launch Complex							
Launch Site No 1 (KOROSTEN 1)		50-51-45N 28-18-45E	II	4		Complete	
Launch Site No 2 (KOROSTEN 2)		50-52-30N 28-30-30E	II	4		Complete	

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.
KOZHANOVICH Launch Complex						
Launch Site No 1 (KOZHANOVICH 1)		52-10-30N 27-51-30E	I	4		Complete
Launch Site No 2 (KOZHANOVICH 2)		52-11-45N 27-48-30E	I	4		Complete
KRASKINO Launch Complex						
Launch Site No 1 (KRASKINO)		42-44-00N 130-10-15E	II	4		Complete
KRASNOZ AMENSK Launch Complex						
Launch Site No 1 (VIESVILLE)		55-01-30N 22-23-00E	I	4		Complete
Launch Site No 2 (RAGNIT)		55-01-30N 22-11-30E	I	6		Complete
KROLOVETS Launch Complex						
Launch Site No 1 (KROLOVETS 1)		51-36-45N 33-29-45E	III	4		Complete
Launch Site No 2 (KROLOVETS 2)		51-40-45N 33-29-30E	III	4		Complete
KURGANCHA Launch Complex						
Launch Site No 1 (KURGANCHA 1)		39-37-15N 65-51-00E	I	4		Complete
Launch Site No 2 (KURGANCHA 2)		39-37-30N 65-57-15E	I	4		Complete
Hard Launch Site (TYM)		39-35-15N 65-42-45E	IV	2		Complete
LEBEDIN Launch Complex						
Launch Site No 1 (LEBEDIN 1)		50-33-00N 34-26-00E	III	4		Complete
Launch Site No 2 (LEBEDIN 2)		50-35-45N 34-24-45E	III	4		Complete
Launch Site No 3 (POSSIBLE)		50-38-00N 34-27-30E	III	4		Undetermined
LIDA Launch Complex						
Launch Site No 1 (LIDA 1)		53-47-00N 25-21-30E	I	4		Complete
Launch Site No 2 (LIDA 2)		53-57-00N 25-28-00E	I	4		Complete
LUTSK Launch Complex						
Launch Site No 1 (LUTSK 1)		50-46-45N 25-01-15E	I	4		Complete
Launch Site No 2 (LUTSK 2)		50-50-15N 25-03-00E	I	4		Complete
Hard Launch Site (VLADMIR-VOLYNSKIY)		50-48-30N 24-42-30E	IV	2		Complete
MARINA GORKA Launch Complex						
Launch Site No 1 (MARINA GORKA)		53-26-30N 27-15-45E	II	4		Complete
MAYKOP Launch Complex						
Launch Site No 1 (KURDZHIPISKAYA)		41-31-45N 40-00-45E	II	4		Complete
Hard Launch Site (SHIRVANSKYA)		44-25-30N 39-54-00E	IV	2		Complete
MOLOSKOVITSY Launch Complex						
Launch Site No 1 (MOLOSKOVITSY 1)		59-28-45N 29-06-00E	II	4		Complete
Launch Site No 2 (MOLOSKOVITSY 2)		59-29-30N 29-12-30E	II	4		Complete
Hard Launch Site (GURELEVO)		59-25-30N 28-52-30E	IV	2		Complete
MUKACHEVO Launch Complex						
Launch Site No 1 (MUKACHEVO 1)		48-19-00N 22-31-00E	I	4		Complete
Launch Site No 2 (MUKACHEVO 2)		48-19-30N 22-37-45E	I	4		Complete

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.
NADVORNAYA Launch Complex		48-38-00N 24-42-00E	I	4		Complete
Launch Site No 1 (PARYSICHE)		48-39-30N 24-46-15E	I	4		Complete
Launch Site No 2 (NOVAVES)		48-47-45N 24-50-15E	IV	2		Complete
Hard Launch Site (OTYNYA)						
NIGRANDE Launch Complex		56-31-00N 22-02-15E	III	4		Complete
Launch Site No 1 (NIGRANDE)		56-35-45N 21-49-15E	IV	2		Mid
Hard Launch Site (SKRUNDA)						
NOVOSYSOYEVKA Launch Complex		44-11-30N 133-26-00E	III	4		Complete
Launch Site No 1 (NOVOSYSOYEVKA)		44-07-45N 133-27-30E	IV	2		Complete
Hard Launch Site						
OSTROG Launch Complex		50-14-30N 26-44-00E	I	4		Complete
Launch Site No 1 (OSTROG 1)		50-17-15N 26-41-30E	I	4		Complete
Launch Site No 2 (OSTROG 2)						
OSTROY Launch Complex		57-32-45N 28-12-00E	I	4		Complete
Launch Site No 1 (ASANOVSHCHINA)		57-37-30N 28-12-30E	I	4		Complete
Launch Site No 2 (SHEVELEVO)		57-24-30N 28-26-45E	IV	2		Complete
Hard Launch Site (REDKINO)						
PAPLAKA Launch Complex		56-24-00N 21-15-30E	I	4		Complete
Launch Site No 1 (PAPLAKA 1)		56-25-30N 21-15-30E	I	4		Complete
Launch Site No 2 (PAPLAKA 2)						
PERVOMAYSK Launch Complex		47-58-30N 30-53-00E	IV	2		Complete
Hard Launch Site No 1 (KAMENNYY MOST ¹)		47-58-45N 30-53-30E	IV	2		Late
Hard Launch Site No 2 (SEMENOVKA 1)		47-53-45N 30-57-30E	IV	2		Mid
Hard Launch Site No 3 (SEMENOVKA 2)						
PINSK Launch Complex		52-10-15N 25-11-00E	I	4		Complete
Launch Site No 1 (IVANOVO)		52-12-45N 25-41-15E	I	4		Complete
Launch Site No 2 (MOTOL)						
POLOTS'K Launch Complex		55-22-45N 28-11-00E	II	4		Complete
Launch Site No 1 (POLOTS'K 1)		55-24-15N 28-33-30E	II	4		Complete
Launch Site No 2 (POLOTS'K 2)						
POSTAVY Launch Complex		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 1 (POSTAVY)		55-20-30N 26-51-30E	II	4		Complete
Launch Site No 2 (KOZYANY)						
PRUZHANY Launch Complex		52-30-30N 24-08-15E	II	4		Complete
Launch Site No 1 (PRUZHANY 1)		52-33-00N 24-07-00E	II	4		Complete
Launch Site No 2 (PRUZHANY 2)						
RAKVERE Launch Complex		59-08-30N 26-26-30E	II	4		Complete
Launch Site No 1 (SIMUNA)		59-11-30N 26-20-15E	II	4		Complete
Launch Site No 2 (VAIKE MAAVRJA)						
RISTI Launch Complex		59-04-00N 24-03-15E	I	1		Complete
Launch Site No 1 (RISTI 1)		59-06-30N 24-06-30E	I	4		Complete
Launch Site No 2 (RISTI 2)						

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.
ROZHDESTVENKA Launch Complex						
Launch Site No 1 (ROZHDESTVENKA)		45-47-15N 133-43-15E	II	4		Complete
RUZHANY Launch Complex						
Launch Site No 1 (KRUPA 1)		52-18-15N 24-12-00E	II	4		Complete
Launch Site No 2 (KRUPA 2)		52-19-30N 24-15-30E	II	4		Complete
SARY OZEK Launch Complex						
Launch Site No 1 (KARA BABAU 1)		44-32-00N 77-16-15E	III	4		Complete
Hard Launch Site (PROBABLE)		44-31-00N 77-58-15E	IV	2		Complete
SATEKHAL Launch Complex						
Launch Site No 1 (SALANTAI 1)		55-59-45N 21-38-00E	I	4		Complete
Launch Site No 2 (SALANTAI 2)		56-02-15N 21-41-30E	I	4		Complete
Hard Launch Site (ZEMACHU KALAVRIJA)		56-01-30N 21-53-30E	IV	2		Complete
SHESTOVY Launch Complex						
Launch Site No 1 (SHESTOVY 1) (POSSIBLE)		62-57-15N 40-13-00E	IV	2		Undetermined
Launch Site No 2 (SHESTOVY 2) (POSSIBLE)		62-58-00N 40-11-15E	IV	2		Undetermined
SLONIM Launch Complex						
Launch Site No 1 (BYTEX 1)		52-52-30N 25-21-00E	I	4		Complete
Launch Site No 2 (BYTEX 2)		52-55-30N 25-21-30E	I	4		Complete
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 3) (PROBABLE)		54-36-15N 26-23-15E	III	4		Complete
Hard Launch Site (SMORGON 2)		54-28-15N 26-18-15E	IV	2		Complete
SOKAL' Launch Complex						
Launch Site No 1 (SOKAL' 1)		50-23-00N 24-18-30E	I	4		Complete
Launch Site No 2 (SOKAL' 2)		50-27-30N 24-20-15E	I	4		Complete
Hard Launch Site (SOKAL' 3)		50-20-15N 24-26-00E	IV	2		Complete
SOVETSK Launch Complex						
Launch Site No 1 (SLAVSK 1)		54-59-15N 21-37-15E	I	4		Complete
Launch Site No 2 (SLAVSK 2)		55-00-00N 21-29-00E	I	2		Complete
SUCHAN Launch Complex						
Launch Site No 1 (NOVITSKOYE)		43-01-45N 133-17-15E	I	4		Complete
Launch Site No 2 (SEVERNYY SUCHAN)		43-10-00N 133-20-00E	I	4		Complete
TAURAGE Launch Complex						
Launch Site No 1 (TAURAGE 3)		55-05-15N 22-19-30E	I	4		Complete
Launch Site No 2 (TAURAGE 1)		55-10-15N 22-20-15E	I	4		Complete
TAYBOLA Launch Complex						
Hard Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV	2		Complete
Hard Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV	2		Complete
Hard Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV	2		Mid
TORVA Launch Complex						
Launch Site No 1 (TORVA 1)		57-56-30N 26-04-30E	I	4		Complete
Launch Site No 2 (TORVA 2)		57-59-15N 26-05-15E	I	4		Complete
Hard Launch Site (TSIRGULINA)		57-49-45N 26-12-15E	IV	2		Complete

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR.
UGOLNYY KOP Launch Complex Launch Site No 1 (UGOLNYY)		64-46-15N 177-58-00E	II	4		Complete
UKMERGE Launch Complex Launch Site No 1 (VEPRIAI) Launch Site No 2 (UKMERGE)		55-08-00N 24-38-45E 55-11-15N 24-42-30E	I I	4 4		Complete Complete
UMAN Launch Complex Launch Site No 1 (MOLODETSKOYE) Launch Site No 2 (MANKOVA)		48-53-45N 30-27-45E 48-57-45N 30-24-00E	I I	1 4		Complete Complete
USOVO Launch Complex Launch Site No 1 (OVRUCH 1) Launch Site No 2 (OVRUCH 2) Launch Site No 3 (LIPNIKI)		51-17-45N 28-16-00E 51-18-45N 28-10-30E 51-12-00N 28-26-30E	I I II	4 4 4		Complete Complete Complete
VORU Launch Complex Launch Site No 1 (VORU 1) Launch Site No 2 (VORU 2)		57-46-00N 26-47-15E 57-49-15N 26-50-30E	II II	4 4		Complete Complete
VSELYUB Launch Complex Launch Site No 1 (VSELYUB 1) Launch Site No 2 (VSELYUB 2)		53-46-15N 25-43-00E 53-48-00N 25-46-45E	I I	4 4		Complete Complete
VEL'ISK Launch Complex Launch Site No 1 (VEL'ISK 1) Launch Site No 2 (VEL'ISK 2)		51-42-00N 29-12-30E 51-47-00N 29-18-00E	I I	4 4		Complete Complete
ZAGARE Launch Complex Launch Site No 1 (ZAGARE 1) Launch Site No 2 (ZAGARE 2) Hard Launch site (LIELEJEA)		56-23-15N 23-19-30E 56-29-00N 23-21-30E 56-24-00N 23-36-15E	I I IV	4 4 2		Complete Complete Complete
ZHITOMIR Launch Complex Launch Site No 1 (ZHITOMIR 1) Launch Site No 2 (ZHITOMIR 2) Launch Site No 3 (BERDICHEV)		50-04-45N 28-16-15E 50-10-15N 28-16-00E 50-05-45N 28-22-45E	II II II	4 4 4		Late Complete Late
ZHMERINKA Launch Complex Launch Site No 1 (GNIVAN) Launch Site No 2 (ZHMERINKA) Hard Launch Site (VINNITSA)		49-09-15N 28-12-45E 49-10-30N 28-04-45E 49-17-30N 28-20-45E	II II IV	4 4 2		Complete Complete Complete
ZNAMENSK Launch Complex Launch Site No 1 (ZNAMENSK 1) Launch Site No 2 (ZNAMENSK 2)		54-33-00N 21-11-45E 54-35-30N 21-08-45E	I I	1 1		Complete Complete

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TABLE 4. ALPHABETICAL LISTING OF LOCATIONS CONSIDERED IN DETAIL BY THE DWG

PLACE NAME	ICBM	MRCM IRBM	PLACE NAME	ICBM	MRCM IRBM
AKHTYRKA	Negative	Confirmed	DROGOBYCH	Negative	Confirmed
AKMOLINSK	Negative	Negative	DROVYANAYA	Confirmed	Negative
ALMA ATA	Negative	Negative	DUBROVO	Negative	Undetermined
ALSUNGA (See KULDIGA AREA)	Negative	Negative	DUNAYEVTSY (See KAMENETS PODOL'SKIY)		
ALUKSNE	Negative	Confirmed	DUNDAGA (See KULDIGA Area)		
ALYKEL	Negative	Negative	DURBE (See PAPLAKA)		
ANADYR (See UGOL'NYYE KOP)	Negative	Confirmed	DYATLOVO	Negative	Confirmed
ANASTAS'YEVKA	Negative	Confirmed	EMBA ¹	Negative	Negative
ARAL'SK	Negative	Negative	ENGEL'S (See SARATOV ENGEL'S AREA)		
ARKHANGEL'SK	Negative	Negative	FEODOSIYA ²	Negative	Negative
ASANOVSHCHINA (See OSTROV)			FRUNZE	Negative	Negative
AY PETRI	Negative	Negative	GLADKAYA	Confirmed	Negative
BALAKLAVA ³	Negative	Negative	GLAZOV	Negative	Negative
BALTA	Negative	Confirmed	GNIVAN (See ZHMERINKA)		
BARANO-ORENBURG-SKOYE	Negative	Confirmed	GODYKHA (See ZHITOMIR)		
BAUTINO ⁴	Negative	Negative	GOMEL	Negative	Confirmed
BELAYA TSERKOV'	Negative	Negative	GORODOK (L'VOV Area)	Negative	Undetermined
BELOKOROVICHI	Negative	Negative	GRANOV ⁵	Negative	Confirmed
BERDICHEV (See ZHITOMIR)	Negative	Confirmed	GRESK	Negative	Confirmed
BEREGOVO (See MUKACHEVO)			GROBINA (See PAPLAKA)		
BERESTECHKO (See BRODY)			GRODEKOVO (See BARANO-ORENBURGSKOYE)		
BEREZOVKA (SARATOV ENGEL'S AREA)	Negative	Negative	GURLEVO (See MOLOSKEVITSY)		
BEREZOVKA (See DYATLOVO)			GUSEV	Negative	Confirmed
BERINGOVSKIY	Negative	Negative	GVARDEYSK	Negative	Confirmed
BOLEKHOV (See DOLINA)			HIMAA ISLAND	Negative	Negative
BORKHOV (See GOMEL')			IECAVA (See JELGAVA)		
BORKOVICHI (See DISNA)			IRKUTSK	Negative	Negative
BORSHCHEV	Negative	Confirmed	ITATKA	Confirmed	Negative
BREST	Negative	Confirmed	IUL'TIN	Negative	Negative
BRODY	Negative	Confirmed	IVANOVO (See PINSK)		
BULZHINO	Negative	Undetermined	JELGAVA	Negative	Confirmed
BYTEN (See SLONIM)			JONAVA	Negative	Confirmed
CHAADAYEVKA	Undetermined	Undetermined	KAMENETS PODOL'SKIY		
CHAPAYEVKA	Negative	Negative	KAMENNY MOST ⁶ (See PERVOMAYSK)		
CHAPAYEVSK	Negative	Negative	KAMYSHIN	Negative	Negative
CHÈLKAR	Negative	Confirmed	KANDAGACH	Doubtful	Doubtful
CHEREPOVETS	Negative	Negative	KANDALAKSHA	Negative	Doubtful
CHERNOMORSKOYE ⁷	Negative	Negative	KAPUSTIN YAR	Negative	Confirmed
CHITA (See DROVYANAYA)			KARABABAU (See SARY OZEK)		R & D
CHKALOV (See ORENBURG)			KARANGIT ⁸	Negative	Negative
DAUGAVPILS	Negative	Negative	KARKARALINSK	Negative	Negative
DELYATIN	Negative	Negative	KARMELAV (See JONAVA)		
DERAZHNYA	Negative	Confirmed	KEDAINAI	Negative	
DISNA	Negative	Confirmed	KHAAPSALU (See RISTI)		
DOBROVOVDY (See UMAN')			KHABAROVSK (See ANASTASYEVKA)		
DOLINA	Negative	Confirmed	KHASHURI		
DOLON ⁹	Negative	Negative	KHMELNITSKIY (See DERAZHNYA)		
DONOK	Negative	Negative	KHVALINSK		
			KHYROV	Negative	Negative
			KIEV	Negative	Undetermined
					Negative

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM IRBM	PLACE NAME	ICBM	MRBM IRBM
KILDIN ISLAND (See STARYY KILDIN)	Negative	Negative	MONTYGINO	Negative	Negative
KINESHMA	Doubtful	Negative	MOTOL (See PINSK)	Negative	Negative
KIRENSK	Negative	Confirmed	MOZHAYSK	Negative	Confirmed
KIVERTSY	Negative	Doubtful	MUKACHEVO	Negative	Doubtful
KLAIPEDA	Negative	Negative	MURMANSK	Negative	Confirmed
KLESY (See SARNY)	Negative	Negative	NADVORNAYA	Negative	Negative
KOLGOMPYA	Negative	Confirmed	NAKHODKA (See RYURIK)	Negative	Negative
KONKOVICHI	Negative	Confirmed	NENOKSA	Negative	Confirmed
KOROSTEN	Negative	Confirmed	NIGRANDE	Negative	Negative
KOSE (See TALLINN)	Confirmed	Negative	NIZHNYAYA SALDA (See VERKHNYAYA SALDA)	Negative	Negative
KOSTROMA	Confirmed	Negative	NIZHNYAYA TURA (See VERKHNYAYA SALDA)	Negative	Negative
KOZELSK	Negative	Confirmed	NORIL'SK	Negative	Negative
KOZHANOVICHI	Negative	Negative	NOVAYA MEZINOVKA	Negative	Negative
KOZYANY (See POSTAVY)	Negative	Confirmed	NOVITSKOYE (See SUCHAN)	Negative	Negative
KRASKINO	Negative	Negative	NOVOLITOVSK (See SUCHAN)	Negative	Negative
KRASNOARMEYSKOYE (See SARATOV ENGEL'S AREA)	Negative	Negative	NOVOSIBIRSK	Confirmed	Negative
KRASNOYARSK (See GLADKAYA)	Negative	Confirmed	NOVOSY-SOYEVKA	Negative	Confirmed
KRASNOZNAMENSK	Negative	Negative	NOVOV (See NADVORNAYA)	Undetermined	Undetermined
KREMOVO	Negative	Negative	NYANDOMA	Negative	Negative
KRISTANOPOL (See SOKAL')	Negative	Negative	OBOZERSKAYA	Negative	Confirmed
KROLEVETS	Negative	Confirmed	OLENT'YA AREA	Negative	Undetermined
KRUPA (See RUZHANY)	Negative	Negative	OLEVSK (See BEL-OKOROVICHI)	Negative	Negative
KULDIGA AREA	Negative	Negative	OL'GOPOL' (See BALTA)	Confirmed	Negative
KUNGUR (See PERM)	Negative	Negative	OMSK	Negative	Negative
KURDZHIPSKAYA (See MAYKOP)	Negative	Negative	ORENBURG	Negative	Confirmed
KURGANCHA	Negative	Confirmed	OSTROG	Negative	Confirmed
KURITICHI (See PETRIKOV)	Negative	Negative	OSTROV	Negative	Negative
KURMENI (See MARCIANA MADONA)	o	o	OTAR	Negative	Negative
KYSHTYM	Negative	Negative	OTYNYA (See NADVORNAYA)	Confirmed	Negative
LEBEDIN	Negative	Confirmed	OVRUCH (See USOVO)	Negative	Confirmed
LEJASCIEMS (See ALUKSNE)	Negative	Negative	PAPLAKA	Negative	Confirmed
LIDA	Negative	Confirmed	PARYSHCHE (See NADVORNAYA)	Negative	Negative
LIELEJA (See ZAGARE)	Negative	Negative	PENZA (See CHAAD-YEVKA)	Negative	Negative
LIPNIKI (See USOVO)	Negative	Confirmed	PERM	Confirmed	Negative
LUTSK	Negative	Negative	PERVOMAYSK	Negative	Confirmed
L'VOV	Negative	Confirmed	PETRIKOV (See KONK-OVICH)	Negative	Negative
LYALICHI (See KREMOVO)	Negative	Negative	PEVEK	Negative	Negative
MAKAT	Negative	Confirmed R & D	PILTENE (See KULDIGA AREA)	Negative	Negative
MALAYA SAZANKA	Negative	Negative	PINSK	Negative	Confirmed
MANKOVKA (See UMAN')	Negative	Undetermined	PLESETSK	Confirmed	Negative
MARCIANA MADONA AREA	Negative	Confirmed	FOCHINOK	Negative	Negative
MARINA GORKA	Negative	Confirmed	PODPOLOZ'YE	Negative	Undetermined
MAYKOP	Negative	Confirmed	POLOTSK	Negative	Confirmed
MEDENITSA (See DROGOBYCH)	Negative	Negative	POLTAVA	Negative	Negative
MEDVED	Negative	Negative	POL'YARNYY URAL	Negative	Negative
MOLODETSKOYE (See UMAN')	Negative	Negative	POSTAVY	Negative	Confirmed
MOLOSKOVITSY	Negative	Confirmed	PROKHORY (See SPASSK DAL'NY)	Negative	Negative

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TABLE 4. (*Continued*)

PLACE NAME	ICBM	MRBM IRBM	PLACE NAME	ICBM	MRBM IRBM
PROVIDENYA	Negative	Doubtful	SOVETSKAYA GAVAN AREA ¹⁰	Negative	Negative
PRUZHANY	Negative	Confirmed	SPASSK-DAL'NYY	Negative	Negative
RAGNIT (See KRASNOZNA-MENSK)			STALINABAD	Negative	Negative
RAKVERE	Negative	Confirmed	STRYY KILDIN ¹¹	Negative	Negative
RECHITSA (See DUBROVO)			STRYY (See DROGOBYCH)		
REDKINO (See OSTROV)			SUCHAN	Negative	Confirmed
RISTI	Negative	Confirmed	SUDAK	Negative	Negative
ROZHDESTVENKA	Negative	Confirmed	SUROVATIKHA	Negative	Negative
RUDNYA ZLOTINSKAYA (See BELOKOROVICH)			SVALYAVA AREA	Negative	Possible
RUSKI (See ALUKSNE)			SVERDLOVSK	Negative	Negative
RUZHANY	Negative	Confirmed	SVOBODNYY	Confirmed	Negative
RYURIK ⁷	Negative	Negative	TALLINN	Negative	Negative
SAAREMAA ISLAND	Negative	Negative	TAMBOV	Negative	Negative
SALANTAI (See SATEIKIAI)			TASHARA	Negative	Negative
SALEKHARD	Negative	Negative	TASHKENT	Negative	Negative
SAMLAND PENINSULA	Negative	Negative	TAURAGE	Negative	Confirmed
SARATOV ENGEL'S AREA	Negative	Negative	TAYBOLA	Negative	Confirmed
SARY	Negative	Doubtful	TEYKOVO	Confirmed	Negative
SAROVA	Negative	Negative	TIKSI ⁸	Negative	Negative
SARY OZEK	Negative	Confirmed	TOMSK (See ITATKA)		
SARY SHAGAN ²	Negative	Negative	TOROPETS	Negative	Negative
SATEIKIAI	Negative	Confirmed	TORVA	Negative	Confirmed
SEMENOVKA (See PERVOMAYSK)			TROSTYANETS (See KIVERTSY)		
SEMIPALATINSK	Negative	Negative	TSIRGULINA (See TORVA)		
SERGACH	Negative	Negative	TU'APSE	Negative	Negative
SEVASTOPOL ⁹	Negative	Negative	TUKUMS	Negative	Negative
SEVERNYY SUCHAN (See SUCHAN)			TAM (See KURGANCHA)	Confirmed	Negative
SHADRINSK	Confirmed	Negative	TYUMEN'	Confirmed	Negative
SHAGAN (See DOLON)			TYURA TAM	R & D	Negative
SHEPETOVKA (See OSTROG)			UFA	Doubtful	Negative
SESTOVO	Negative	Possible	UGOL'NYYE KOPI ¹²	Negative	Confirmed
SEVELEVO (See OSTROV)			UKMERGE	Negative	Confirmed
SHIKHANY	Negative	Negative	UKRAINA	Negative	Negative
SHIRVANSKAYA (See MAYKOP)			ULAN UDE	Negative	Negative
SHISHCHITSY (See GRESK)			UMAN'	Negative	Confirmed
SIMUNA (See RAKVERE)			URECH'YE	Negative	Confirmed
SKALA-PODOL'SKAYA (See BORSHCHEV)			USOVO	Negative	Confirmed
SKRUNDI (See NIGRANTE)			USSURISK VOZDVI-ZHENKA		
SLAVSK (see SOVETSK)			UST'UKHTA	Negative	Negative
SLAVYANKA (See KRASKINO)			UZHGOROD	Negative	Undetermined
SLITERE (See KULDIGA AREA)			VAIKE MAARJA (See RAKVERE)		
SLONIM	Negative	Confirmed	VALDAY	Negative	Negative
SMORGON	Negative	Confirmed	VERKHNYAYA SALDA	Confirmed	Negative
SOFIYA ALEKSEYEVKA (See BARANO-ORENBURG-SKOYE)			VEPRIAI (See UKMERGE)		
SOKAL ¹³	Negative	Confirmed	VIESVILLE (See KRAS-NOZNAMENSK)		
SOLY (See SMORGON)			VINNIKI (See L'VOV)		
SOVETSK			VINNITSA (See ZHMERINKA)		
			VLADIMAR VOLYNSKIY (See LUTSK)		
			VLADIVOSTOK	Negative	Negative
			VOLKOVYSK	Negative	Negative
			VOLODARSK	Undetermined	Undetermined
			VOLOGDA SOKOL	Negative	Negative
			VOLOVETS (See SVALYAVA)		

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM IRBM	PLACE NAME	ICBM	MRBM IRBM
VORKUTA	Negative	Negative	YUR'YA	Confirmed	Negative
VORU	Negative	Confirmed	YURYUZAN	Negative	Negative
VSELYUB	Negative	Confirmed	ZAGARE	Negative	Confirmed
YAKUTSK	Negative	Negative	ZBLYANY (See DYATLOVO)		
YASVA (See VERKHNYAYA SALDA)			ZELKI (See DISNA)		
YATSUKI (See DYATLOVO)	Confirmed	Negative	ZEMAICHU KALVARIJA (See SATEIKAI)		
YEDROVO			ZHEREBKOV (See BALTA)		
YEKATERINOVKA (See SUCHAN)			ZHITOMIR	Negative	Confirmed
YEL'SK	Negative	Confirmed	ZHMERINKA	Negative	Confirmed
YEVPATORIYA	Negative	Negative	ZNAMENSK	Negative	Confirmed
YOSHKAR-OLA	Confirmed	Negative			

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